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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/651,626	08/29/2003	Arnab Das	TI-21550.2	8819
43025 7590 01/12/2007 ROBERT J. LAUSON LAUSON & ASSOCIATES 1600 ROSECRANS AVENUE FOURTH FLOOR			. EXAMINER	
			WONG, ALLEN C	
			ART UNIT	PAPER NUMBER
	N BEACH, CA 90266		2621	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
2 MONTHS		01/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/651,626	DAS ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Allen Wong	2621				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
· · ·	action is non-final.					
3) Since this application is in condition for allowar		osecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>2-19</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>2-19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>20 January 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
	·					
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P	ate				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	алент Аррисаноп				

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 2-9 and 11-18 are rejected on the ground of nonstatutory double patenting over claims 2 and 10 of U. S. Patent No. 5,896,176 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: claim 2 of the present application is similar to claim 2 of the U. S. Patent No. 5,896,176. Claim 3 of the present application is similar to claim 3 of the U. S. Patent No. 5,896,176. Claim 4 of the present application is similar to claim 4 of the U. S. Patent No. 5,896,176. Claim 5 of the present application is

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similar to claim 5 of the U. S. Patent No. 5,896,176. Claim 6 of the present application is similar to claim 6 of the U. S. Patent No. 5,896,176. Claim 7 of the present application is similar to claim 7 of the U. S. Patent No. 5,896,176. Claim 8 of the present application is similar to claim 8 of the U. S. Patent No. 5,896,176. Claim 9 of the present application is similar to claim 9 of the U. S. Patent No. 5,896,176.

Claim 11 of the present application is similar to claim 10 of the U. S. Patent No. 5,896,176. Claim 12 of the present application is similar to claim 11 of the U. S. Patent No. 5,896,176. Claim 13 of the present application is similar to claim 12 of the U. S. Patent No. 5,896,176. Claim 14 of the present application is similar to claim 13 of the U. S. Patent No. 5,896,176. Claim 15 of the present application is similar to claim 14 of the U. S. Patent No. 5,896,176. Claim 16 of the present application is similar to claim 15 of the U. S. Patent No. 5,896,176. Claim 17 of the present application is similar to claim 16 of the U. S. Patent No. 5,896,176. Claim 18 of the present application is similar to claim 16 of the U. S. Patent No. 5,896,176. Claim 18 of the present application is similar to claim 17 of the U. S. Patent No. 5,896,176.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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The USPTO "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" (Official Gazette notice of 22 November 2005), Annex IV, reads as follows:

Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." In this context, "functional descriptive material" consists of data structures and computer programs which impart functionality when employed as a computer component. (The definition of "data structure" is "a physical or logical relationship among data elements, designed to support specific data manipulation functions." The New IEEE Standard Dictionary of Electrical and Electronics Terms 308 (5th ed. 1993).) "Nonfunctional descriptive material" includes but is not limited to music, literary works and a compilation or mere arrangement of data.

When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare In re Lowry, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994) (claim to data structure stored on a computer readable medium that increases computer efficiency held statutory) and Warmerdam, 33 F.3d at 1360-61, 31 USPQ2d at 1759 (claim to computer having a specific data structure stored in memory held statutory product-by-process claim) with Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory).

In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. See Lowry, 32 F.3d at 1583-84, 32 USPQ2d at 1035.

Claims 10 and 19 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. Claim 10 defines a "said first circuitry is a programmable processor executing a first program; and (b) said second circuitry is said programmable processor executing a second program" embodying functional descriptive material. Claim 19 defines a "said first circuitry is a programmable processor executing a first program" embodying functional descriptive material. However, the claim does not define a computer-readable medium or memory and is thus non-statutory for that reason (i.e., "When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology

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permits the function of the descriptive material to be realized" – Guidelines Annex IV). That is, the scope of the presently "said first circuitry is a programmable processor executing a first program; and (b) said second circuitry is said programmable processor executing a second program" and "said first circuitry is a programmable processor executing a first program" can range from paper on which the program is written, to a program simply contemplated and memorized by a person. The examiner suggests amending the claim to embody the program on "computer-readable medium" or equivalent in order to make the claim statutory. Any amendment to the claim should be commensurate with its corresponding disclosure.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasserman (5,781,184).

Regarding claim 2, Wasserman discloses an encoder for motion-compensated video, comprising:

(a) first circuitry operable to extract motion data and texture data for a plurality of groups of pixels of input digital video (col.5, ln.62-67 and col.10, ln.16-32; Wasserman discloses the compression of motion and texture data via MPEG-4 compression scheme); and

(b) second circuitry coupled to an output of said first circuitry, said second circuitry operable to aggregate said motion data and to aggregate said texture data (col.10, ln.16-32).

Wasserman does not specifically disclose the resynchronization word between said aggregated motion data and said aggregated texture data. However, Wasserman discloses in that the video image data is displayed onto a screen that includes motion and texture together (col.16, ln.16-32). It would have been obvious to one of ordinary skill in the art to acknowledge that since the motion and texture information are displayed together in a monitor for viewing, there must be a type of resynchronization word or data being inserted for permitting the encoding of motion and texture data so as to decode image data for viewing high quality full motion and texturized image data on the monitor screen.

Note claims 3-6 and 10 have similar corresponding elements.

Regarding claims 7-8, Wasserman discloses the use of variable length coding (col.5, ln.62-67; in MPEG encoding, VLC or variable length coding is used).

Regarding claim 9, Wasserman discloses the use of shape data (col.5, In.62-67; Wasserman discloses implementing the encoding of video image data in terms of motion, shape and texture coding as it is defined in MPEG-4).

Regarding claim 11, Wasserman discloses a decoder for motion-compensated video, comprising:

(a) first circuitry operable to interpret a first sequence of symbols as aggregated motion data of groups of pixels and interpret a second sequence of symbols as

aggregated texture data of said groups of pixels (col.5, ln.62-67 and col.10, ln.16-32; Wasserman discloses the compression of motion and texture data via MPEG-4 compression scheme; fig.1, element 132 is a decoder for decoding video image data).

Wasserman does not specifically disclose the "resynchronization word".

However, Wasserman discloses in that the video image data is displayed onto a screen that includes motion and texture together (col.16, In.16-32). It would have been obvious to one of ordinary skill in the art to acknowledge that since the motion and texture information are displayed together in a monitor for viewing, there must be a type of resynchronization word or data being inserted for permitting the encoding of motion and texture data so as to decode image data for viewing high quality full motion and texturized image data on the monitor screen.

Note claims 12-15 and 19 have similar corresponding elements.

Regarding claims 16-17, Wasserman discloses variable length decoding (col.5, ln.62-67; in MPEG encoding, VLC or variable length coding is used, so VLD or variable length decoding must be used to perform the converse of the VLC).

Regarding claim 18, Wasserman discloses the use of shape data (col.5, In.62-67; Wasserman discloses implementing the encoding of video image data in terms of motion, shape and texture coding as it is defined in MPEG-4).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (571) 272-7341.

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The examiner can normally be reached on Mondays to Thursdays from 8am-6pm Flextime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Groody can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Allen Wong Primary Examiner Art Unit 2621

AW 1/8/07